

FIGURE 1

TGMV Rep, amino acids 110-179:

TLVWGEFQVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:1)

Ala 1 mutant:

TLVWGEFQVD GAAAAGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:2)

Ala4 + 5 mutant:

TLVWGEFQVD GRSARGGCQT SNDAAAAALA ASSAAAAQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:3)

Ala6 mutant:

TLVWGEFQVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IAAAIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:4)

Ala7 mutant:

TLVWGEFQVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPAAAL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:5)

Ala8 mutant:

TLVWGEFQVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FAAALNSNL DRIFDKTPEP (SEQ ID NO:6)

Ala9 mutant:

TLVWGEFQVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL AAIFDKTPEP (SEQ ID NO:7)

Ala13 mutant:

TLVWGEAAVD GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:8)

Ala14 mutant:

TLVWGEFQVA GRSARGGCQT SNDAAAEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:9)

Leu mutant:

TLVWGEFQVD GRSARGGCQT SNDLLLEALN ASSKEEALQI IREKIPEKYL FQFHNLSNL DRIFDKTPEP (SEQ ID NO:10)

using 10 = 10:11-179 in all cases
= 10:11-179 in all cases

Fig. 2A

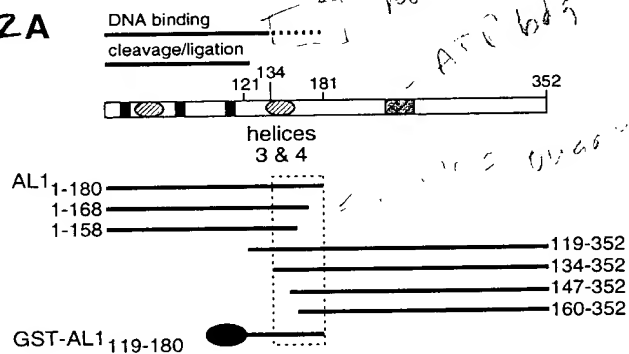


Fig. 2B

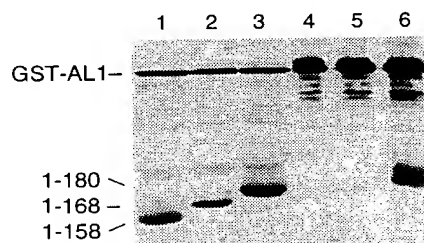


Fig. 2C

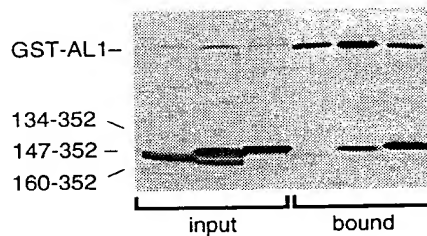


Fig. 2D

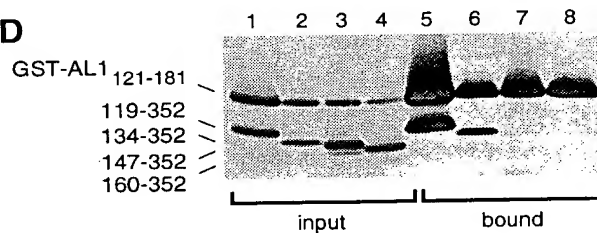
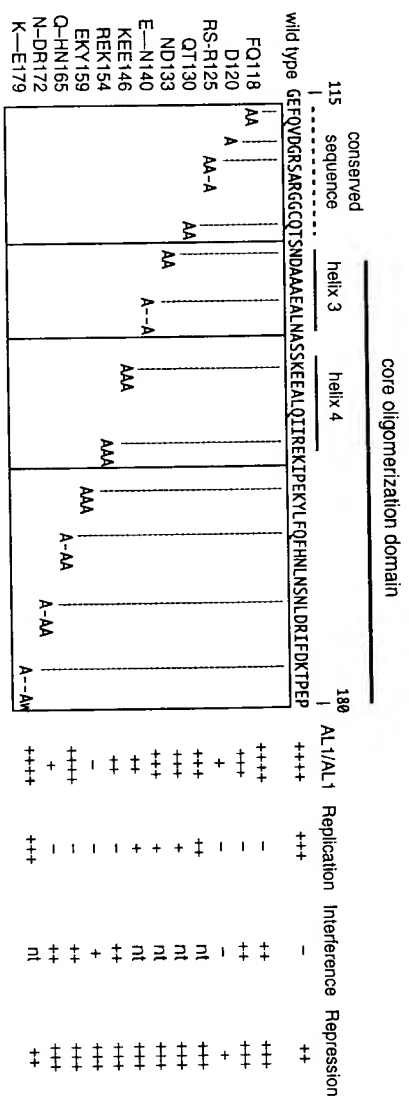


Figure 3



0989346 040999

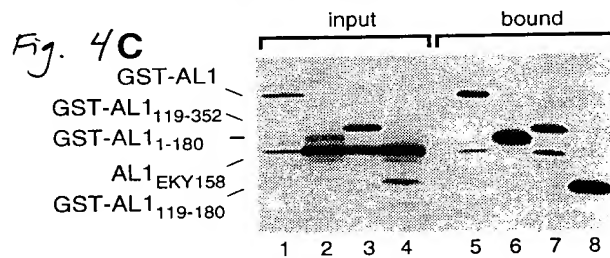
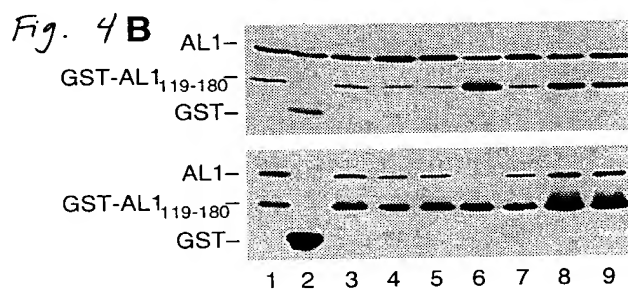


Fig. 6A

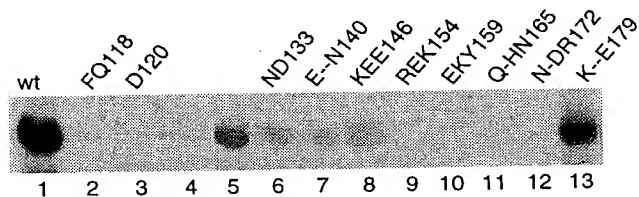


Fig. 6B

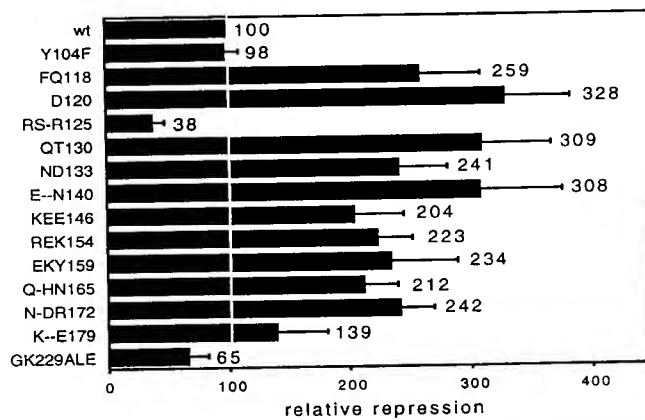


Fig. 7 A

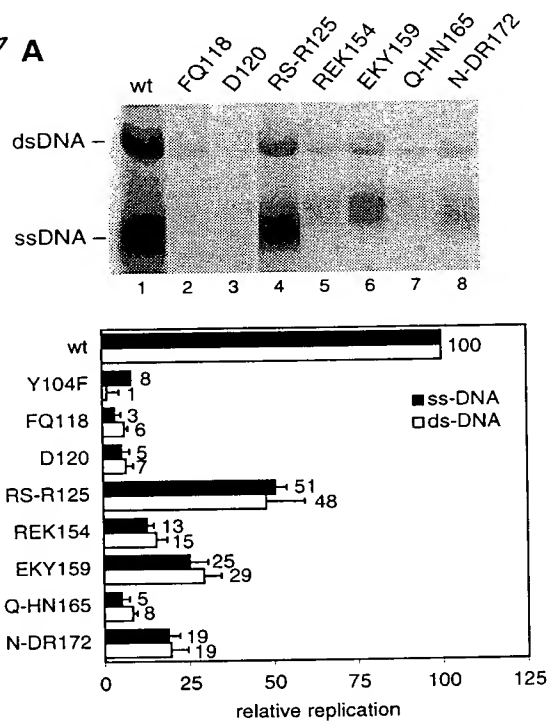


Fig. 7 B

